

IN THE CLAIMS:

Please cancel claims 1-3, 6-12, and 20 without prejudice or disclaimer. Please amend claims 4, 13, and 16-19 as follows. Please add new claims 21-29 as follows.

1-3. (Cancelled)

4. (Currently Amended) ~~The~~An apparatus, ~~according to claim 1, further~~ comprising:

a router configured to route subscriber traffic flow between at least two wireless access networks and an internet protocol network, wherein the at least two wireless access networks correspond to different customer networks;

a generator configured to generate at least one instance for executing a security function on a subscriber traffic flow, so that physically one security instance for subscribers of at least two wireless access networks is present and logically at least one of the at least two wireless access networks has a respective security instance; and

-a reorganizer configured to reorganize a context from a first logical part of the security instance associated with a first wireless access network of the at least two wireless access networks to a second logical part of the security instance associated with a second wireless access network of the at least two wireless access networks.

5. (Previously Presented) The apparatus according to claim 4, wherein the reorganizer is configured to reorganize the context from the first logical part to the second logical part in case of a handover of a subscriber from the first wireless access network to the second wireless access network.

6-12. (Cancelled)

13. (Currently Amended) ~~The~~A method, ~~according to claim 8,~~ further comprising:

providing at least one instance to execute a security function on subscriber traffic flow routed between at least two wireless access networks and an internet protocol network, wherein the at least two wireless access networks correspond to different customer networks, by logically separating the at least one instance for at least two wireless access networks, so that physically one security instance for subscribers of the at least two wireless access networks is present and logically at least one of the at least two wireless access networks has a respective security instance; and

reorganizing a context from a first logical part of the security instance associated with a first wireless access network of the at least two wireless access networks to a second logical part of the security instance associated with a second wireless access network of the at least two wireless access networks.

14. (Previously Presented) The method according to claim 13, wherein the reorganizing comprises reorganizing the context from the first logical part to the second logical part in case of a handover of a subscriber from the first wireless access network to the second wireless access network.

15. (Previously Presented) The method according to claim 14, wherein the reorganizing comprises reorganizing a handover context pertaining to the subscriber handed over from the first wireless access network to the second wireless access network.

16. (Currently Amended) A network node, comprising:
a connection ~~which connects~~ configured to communicatively connect a network node to a distributed routing device configured to route subscriber traffic flow to and from an internet protocol network, wherein the distributed routing device is configured to route subscriber traffic flow between at least two wireless access networks and an internet protocol network, wherein the at least two wireless access networks correspond to different customer networks, and the distributed routing device comprises at least one instance ~~for executing~~ configured to execute a security function on a subscriber traffic flow, so that physically one security instance for subscribers of at least two wireless access networks is present and logically at least one of the at least two wireless access networks has a respective security instance, wherein at least one logical part of the

security instance is associated with a context of a respective one of the wireless access networks and comprises an interface with the respective wireless access network; and

a modifying device configured to modify the context in the at least one logical part of the security instance associated with the respective one of the wireless access network via a respectively provided interface.

17. (Currently Amended) A network system, comprising:

at least two wireless access networks and a distributed routing device configured to route subscriber traffic flow between the at least two wireless access networks and an internet protocol network, wherein the at least two wireless access networks correspond to different customer networks, wherein the distributed routing device is configured to route subscriber traffic flow between at least two wireless access networks and an internet protocol network, and the distributed routing device comprises at least one instance ~~for executing~~ configured to execute a security function on a subscriber traffic flow, so that physically one security instance for subscribers of at least two wireless access networks is present and logically at least one of the at least two wireless access networks has a respective security instance, and a reorganizer configured to reorganize a context from a first logical part of the security instance associated with a first wireless access network of the at least two wireless access networks to a second logical part of the security instance associated with a second wireless access network of the at least two wireless access networks.

18. (Currently Amended) An apparatus, comprising:

routing means for routing subscriber traffic flow between at least two wireless access networks and an internet protocol network, wherein the at least two wireless access networks correspond to different customer networks; ~~and~~

generating means for generating at least one instance for executing a security function on a subscriber traffic flow, so that physically one security instance for subscribers of at least two wireless access networks is present and logically at least one of the at least two wireless access networks has a respective security instance; and

reorganizing means for reorganizing a context from a first logical part of the security instance associated with a first wireless access network of the at least two wireless access networks to a second logical part of the security instance associated with a second wireless access network of the at least two wireless access networks.

19. (Currently Amended) A network node, comprising:

connection means for communicatively connecting a network node to distributed routing means for routing subscriber traffic flow to and from an internet protocol network, wherein the distributed routing means routes subscriber traffic flow between at least two wireless access networks and an internet protocol network, wherein the at least two wireless access networks correspond to different customer networks, and the distributed routing device comprises at least one instance for executing a security

function on a subscriber traffic flow, so that physically one security instance for subscribers of at least two wireless access networks is present and logically at least one of the at least two wireless access networks has a respective security instance, wherein at least one logical part of the security instance is associated with a context of a respective one of the wireless access networks and comprises an interface with the respective wireless access network; and

modifying means for modifying the context in the at least one logical part of the security instance associated with the respective one of the wireless access network via a respectively provided interface.

20. (Cancelled)

21. (New) A computer program, embodied on a computer readable medium, configured to control a processor to implement a method, the method comprising:

providing at least one instance to execute a security function on subscriber traffic flow routed between at least two wireless access networks and an internet protocol network, wherein the at least two wireless access networks correspond to different customer networks, by logically separating the at least one instance for at least two wireless access networks, so that physically one security instance for subscribers of the at least two wireless access networks is present and logically at least one of the at least two wireless access networks has a respective security instance; and

reorganizing a context from a first logical part of the security instance associated with a first wireless access network of the at least two wireless access networks to a second logical part of the security instance associated with a second wireless access network of the at least two wireless access networks.

22. (New) The apparatus according to claim 4, wherein at least one logical part of the security instance is associated with a context of a respective one of the wireless access networks and comprises an interface with the respective wireless access network.

23. (New) The apparatus according to claim 4, further comprising an associating device configured to associate the subscribers with the at least two wireless access networks.

24. (New) The apparatus according to claim 4, wherein the security function comprises at least one of a virtual private network, routing and firewall function.

25. (New) The apparatus according to claim 4, wherein the apparatus is located at a provider edge of the internet protocol network.

26. (New) The method according to claim 13, further comprising:

associating at least one logical part of the security instance with a context of a respective one of the wireless access networks; and

providing an interface between the at least one logical part and the respective associated wireless access network.

27. (New) The method according to claim 26, further comprising:

modifying the context in the at least one logical part by the associated wireless access network via the respective interface.

28. (New) The method according to claim 27, further comprising:

detecting whether the context to be modified comprises a security code; and
in case the context comprises the security code, inhibiting the modifying of the context.

29. (New) The method according to claim 13, further comprising:

associating the subscribers with the wireless access networks.